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### (57) Abstract

The invention relates to methods for controlling of transmission of data in IP networks. According to the invention, the sequence numbers and sending times of transmitted IPSec packets are stored, acknowledgement is sent for every N:th received IPSec packet or after any IPSec packet if T seconds have elapsed after sending a previous acknowledgement packet, the acknowledgement comprising the sequence number of the particular IPSec packet after the reception of which the acknowledgement is sent and the counter values indicating the number of packets and bytes received, and at least the round trip time, packet success rate and throughput value are determined from the reception time of the acknowledgement and the stored sending time associated with the sequence number in the acknowledgement and the counter values indicating the number of packets and bytes received.

Figure 3

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